Application No.: 10/005,040 Docket No.: 101646-0006

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

## **Listing of Claims:**

Claims 1-20 are canceled.

21. (Currently amended) A method for improving skin appearance, the method comprising:

locating a target area of skin to be cosmetically enhanced;

introducing an amount of ultrasound energy at sufficiently high pressure amplitudes to propagate [and propagating] the ultrasound energy non-linearly into a dermis layer of the target area;

allowing the ultrasound energy to be absorbed by the dermis layer such that the dermis layer is stimulated or irritated sufficiently to induce new connective tissue formation; and changing a smoothness of an epidermis layer of the skin.

- 22. (Previously presented) The method of claim 21, wherein the step of introducing includes applying a focused beam of ultrasound energy into the dermis layer.
- 23. (Previously presented) The method of claim 22, wherein the focused beam of ultrasound energy comprises acoustic pulses.
- 24. (Previously presented) The method of claim 21, wherein the amount of ultrasound energy is effective to mechanically disrupt the dermis layer of the target area of skin.
- 25. (Previously presented) The method of claim 24, wherein the dermis layer is mechanically disrupted with shock waves.
- 26. (Previously presented) The method of claim 24, wherein the dermis layer is mechanically disrupted by cavitation.

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27. (Previously presented) The method of claim 21, wherein the step of stimulating or irritating the dermis layer includes the step of elevating the temperature of the dermis layer.

- 28. (Previously presented) The method of claim 21, wherein the step of stimulating or irritating the dermis layer includes the step of denaturing the proteins in the dermis layer.
- 29. (Previously presented) The method of claim 21, wherein the target area of skin includes a wrinkle.
- 30. (Previously presented) The method of claim 22, further comprising the step of scanning the focused beam of ultrasound energy over the target area.
- 31. (Previously presented) The method of claim 21, wherein the step of introducing includes delivering a spatially uniform dosage of ultrasound energy into the dermis layer.
- 32. (Previously presented) The method of claim 21, further comprising the step of cooling the target area of skin.
- 33. (Currently amended) An apparatus for improving skin appearance comprising: an ultrasound transducer for transmitting acoustic waves into a dermis layer of skin; and a control device constructed and arranged to control the transducer and induce [non-linear propagation of] ultrasound energy at sufficiently high pressure amplitudes so as to cause non-linear propagation of the energy into the dermis layer sufficient to induce new connective tissue formation.
- 34. (Previously presented) The apparatus of claim 33, wherein the control device is constructed to deliver a spatially uniform dosage of ultrasound energy to the dermis layer.
- 35. (Previously presented) The apparatus of claim 33, further including an acoustical waveguide.

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36. (Previously presented) The apparatus of claim 33, wherein the ultrasound transducer is a phased array ultrasound transducer.